



10/078,531

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Atty. Dkt. No. PHARMA-18

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Denis MARTIN et al.

Title: STRETOCOCCUS PYOGENS POLYPEPTIDES AND CORRESPONDING DNA FRAGMENTS

Appl. No. 10/078,531

Filing Date: February 21, 2002

Examiner:

Art Unit:

AMENDMENT IN RESPONSE TO NOTICE UNDER 37 CFR §§1821-825

Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Notice to Comply With Requirements for Applications Containing Sequence Disclosures mailed April 11, 2002, please amend the application as follows:

Please amend the application as follows:

In the Specification:

Please amend the specification as shown:

4-7
Please delete the paragraph on page 3, lines 6-9, and replace it with the following paragraph:

A1

Figure 1 represents the DNA sequence (SEQ ID NO: 1) of BVH-P7 gene from serotype M1 S. pyogenes strain ATCC700294; SEQ ID NO: 1. The

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A1 underlined portion of the sequence represents the region coding for the leader peptide.

~~open~~ 1017 Please delete the paragraph on page 3, lines 11-14, and replace it with the following paragraph:

A2 Figure 2 represents the amino acid sequence (SEQ ID NO: 2) BVH-P7 protein from serotype M1 S. pyogenes strain ATCC700294; SEQ ID NO: 2. The underline sequence represents the 21 amino acid residues leader peptide.

Please delete the paragraph on page 3, lines 16-22, and replace it with the following paragraph:

A3 Figure 3 depicts the comparison of the predicted amino acid sequences of the BVH-P7 open reading frames from Spy74 (SEQ ID NO: 3), Spy70 (SEQ ID NO: 4), Spy69 (SEQ ID NO: 5), Spy68 (SEQ ID NO: 6), Spy 60 (SEQ ID NO: 7), ATCC12357 (SEQ ID NO: 8), ATCC700294 (SEQ ID NO: 2) S. pyogenes strains by using the program Clustal W from MacVector sequence analysis software (version 6.5). Underneath the alignment, there is a consensus line where * and . characters indicate identical and similar amino acid residues, respectively.

~~open~~ 1017 Please delete the paragraph on page 21, Table 1, and replace it with the following paragraph:

A4 Table 1. Oligonucleotide primers used for PCR amplifications of S. pyogenes BVH-P7 gene

Genes	Primers I.D.	Restriction site	Vector	Sequence